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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,839	03/12/2004	Chao-Jung Huang	LOU 117	5031
23995 7590 11/20/2008 RABIN & Berdo, PC 1101 14TH STREET, NW			EXAMINER	
			MAPLES, JOHN S	
SUITE 500 WASHINGTO	ON. DC 20005		ART UNIT	PAPER NUMBER
	,		1795	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/798,839 HUANG ET AL. Office Action Summary Examiner Art Unit John S. Maples 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 10 July 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-3.8-13 and 16-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-3, 8-13, 16-23 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Imformation Disclosure Statement(s) (PTC/S5/08)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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1. The following is a guotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-3, 8-13, 16-23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. (New Rejection)

Applicant is now claiming in the two independent claims 1 and 16, that the cross-linked membrane encapsulates the fuel and isolates the fuel from a fuel solvent in the fuel cell. (underlining added) There is no support in the originally filed specification that the fuel solvent is present in the fuel cell. As pages 3 and 4 of the present specification set forth, the fuel solvent is present in the fuel tank, which tank does not form part of the fuel cell.

It is also noted that each of claims 1 and 16 also recite a fuel supplying apparatus for a fuel cell. (underlining added) With this language, the fuel supplying apparatus is defined as being distinct and separate from the fuel cell and does not form part of the same.

Claims 2-3/8-13 and 17-23, dependent on claims 1 and 16, respectively, fall therewith

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3. The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

 Claims 1, 2, 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Prasad et al.-US 6,924,054. (Prasad)

Reference is made to the Abstract of Prasad along with column 2, line 48 through column 6, line 30 along with claim 29. These portions of Prasad teach a cross-linked polymer that holds the methanol fuel. It is noted that the cross-linked polymer in Prasad allows the methanol to permeate in only one direction-into the super-absorbent material, and once there cannot permeate in another direction because the same is held therein, thus meeting the claimed subject matter.

Applicant's arguments have all been considered but are not deemed persuasive.
Applicant argues that Prasad uses a pressurizer and thus is distinguishable from the claimed invention. This is not convincing because applicant has not precluded a
pressurizer from the claimed subject matter. Applicant also argues that the pressurizer
has an opening that is not completely closed. Again, this does not preclude Prasad
from being applied as a reference as applied in the previous paragraph.

Applicant argues that the super-absorbent material in Prasad prevents waste from leaking while applicant's cross-linked membrane selectively allows the encapsulated fuel, but not other solvents in the fuel tank, to permeate through the membrane. This may be true, however, this language does not form part of the claimed subject matter.

A further argument is made in section 4 on page 9 of applicant's recent response, however, again the quoted material does not find recitation in the currently claimed subject matter and so this argument is traversed. The same traversal holds true for the argument in section 5 on pages 9-10 in applicant's recent response because applicant has not claimed "the polymer to control the rate of release of the fuel".

Finally, applicant argues that the polymer in Prasad is permeable to other materials than the fuel. This may be true, however, the teachings in Prasad read on the currently claimed subject matter because the polymer in Prasad is permeable only to the fuel that is present in the area 26 where only fuel is present and thus is only permeable to fuel in that particular area.

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skil in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- This application currently names joint inventors. In considering
 patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the
 subject matter of the various claims was commonly owned at the time any inventions

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covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 3, 9, 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prasad, taken by itself, and also taken in view of Choi et al.-US 5,314,952. (Choi) (New Rejection)

The only claimed features not shown by Prasad are the particular claimed polymer that is cross-linked and for the membrane and the fuel to have a gel-like structure. It would have been obvious to one of ordinary skill in this art to have cross-linked the polyvinylpyrrolidone taught in column 6, line 24 of Prasad because Prasad provides for a cross-linked polymer in lines 20-21 in column 6 and the same would provide for enhanced properties such as absorbency of the polymer by being cross-linked. It is noted that applicant has not specifically argued this reason set forth by the examiner.

Choi teaches the use of a polymer, and in particular, an acrylate being an example of such polymer, for use in absorbing methanol, which polymer and fuel are gel-like-see column 3, line 62 through column 5, line 10 of Choi, and in particular, column 4, line 61 through column 5, line 10. To have formed the fuel and polymer of Prasad of a gel-like material as taught by Choi would have been obvious to one of

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ordinary skill in this art at the time the invention was made because the same would allow the fuel to not spill but to be contained within the polymer.

Applicant's amendment necessitated the new grounds of rejection
 presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See
 MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 571-272-1287. The examiner can normally be reached on Monday-Friday, 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John S. Maples/

John S. Maples Primary Examiner Art Unit 1795

JSM/11-19-2008